



C12 ACERT™ COMPACT MARINE PROPULSION

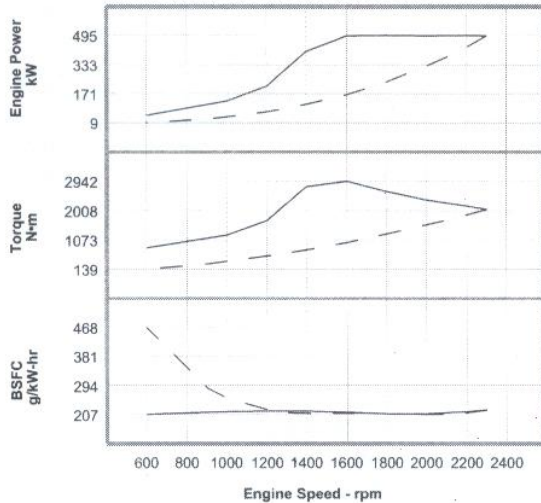
669 mhp (660 bhp) 492 bkW

MARINE ENGINE PERFORMANCE

Preliminary

C12 DITA ACERT COMPACT
492 bkW (660 bhp) @ 2300 rpm
E Rating (High Performance) — DM7530-01

EPA Tier II and IMO Compliant

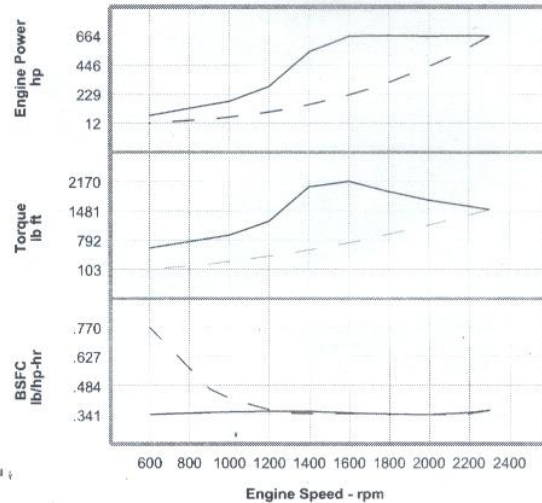


Metric Maximum Power Prop Demand **492 kW**

Preliminary Performance Data

	Engine Speed rpm	Engine Power kW	Engine Torque N-m	BSFC g/kW-hr	Fuel Rate L/hr
Maximum Power Data	2300	492.0	2043	220.0	129.0
	2200	494.9	2148	214.1	126.3
	2000	492.7	2353	208.0	122.2
	1800	493.8	2620	208.9	123.0
	1600	493.0	2942	212.6	124.9
	1400	406.3	2771	216.1	104.7
	1200	210.4	1675	216.3	54.3
	1000	128.2	1225	214.5	32.8
	600	50.9	810	206.9	12.5
	Prop Demand Data	2300	492.0	2043	220.0
2200		430.6	1869	211.2	108.4
2100		374.5	1703	207.0	92.4
2000		323.5	1545	206.6	79.7
1800		235.8	1251	209.1	58.8
1600		165.6	989	210.7	41.6
1400		111.0	757	210.1	27.8
1300		88.8	653	212.2	22.5
1200		69.9	556	220.8	18.4
900		29.5	313	283.8	10.0
600	8.7	139	468.5	4.9	

Cubic prop demand curve with 3.0 exponent for displacement hulls only.



English Maximum Power Prop Demand **660 hp**

Preliminary Performance Data

	Engine Speed rpm	Engine Power hp	Engine Torque lb-ft	BSFC lb/hp-hr	Fuel Rate gph
Maximum Power Data	2300	659.8	1507	.362	34.1
	2200	663.7	1584	.352	33.4
	2000	660.7	1735	.342	32.3
	1800	662.2	1932	.343	32.5
	1600	661.1	2170	.350	33.0
	1400	544.9	2044	.355	27.7
	1200	282.2	1235	.356	14.3
	1000	171.9	903	.353	8.7
	600	68.3	597	.340	3.3
	Prop Demand Data	2300	659.8	1507	.362
2200		577.4	1378	.347	28.6
2100		502.2	1256	.340	24.4
2000		433.8	1139	.340	21.1
1800		316.2	923	.344	15.5
1600		222.1	729	.346	11.0
1400		148.9	558	.345	7.3
1300		119.1	482	.349	5.9
1200		93.7	410	.363	4.9
900		39.6	231	.467	2.6
600	11.7	103	.770	1.3	

Power produced at the flywheel will be within standard tolerances up to 50°C (122°F) combustion air temperature measured at the air cleaner inlet, and fuel temperature up to 52°C (125°F) measured at the fuel filter base. Power rated in accordance with NMMA procedure as crankshaft power. Reduce crankshaft power by 3% for propeller shaft power.

